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Claims:-

1. A cladding material comprising:-
an outer air permeable cover;
5 an inner air permeable cover; and
an intermediate layer, wherein the intermediate layer is provided with a graduated filtering profile.
2. A cladding material according to claim 1, wherein the filtering
10 characteristics of the intermediate layer are such as to trap relatively large particles towards the outer cover end of the intermediate layer and to trap relatively smaller particles towards the inner cover end of the intermediate layer.
- 15 3. A cladding material according to claim 1 or 2, wherein the intermediate layer has thermal and/or sound insulating properties.
4. A cladding material according to any preceding claim, wherein the intermediate layer comprises one or more of:- mineral wool, wet-blown cellulose
20 and glass wool.
5. A cladding material according to any preceding claim, wherein the intermediate layer is provided in the form of one or more of:- membranes, fibres, pulp or cellular based (foam or sponge) materials, or modified aerated
25 concrete.

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6. A cladding material according to claim 5, wherein the intermediate layer comprises fibres.

7. A cladding material according to any preceding claim, wherein the
5 cladding material comprises filter materials for one or more of:- particulate emissions, gas pollutants, chemical agents and biological agents.

8. A cladding material according to any preceding claim, wherein the cladding material is provided in the form of panel units.

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9. A cladding material according to claim 8, wherein the panel units are provided in modular format.

10. A cladding material according to any preceding claim, wherein the
15 intermediate layer is formed of a plurality of one or more separate filter layers, of different filtering characteristics.

11. A cladding material according to claim 10, wherein each filter layer of the intermediate layer is selected to extract a specified range of particle sizes,
20 gaseous pollutants, chemical pollutants, and/or biological agents.

12. A cladding material according to claim 11, wherein the separate filter layers of the intermediate layer together define substantially the complete filter spectrum of particulate and other pollution.

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13. A cladding material according to any one of claims 1 to 9, wherein the intermediate layer is formed of a single filter layer, whose filtering

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characteristics vary across its thickness.

14. A cladding material according to any one of claims 10 to 13, wherein the or each filter layer of the intermediate layer is independently replaceable.

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15. A cladding material according to any one of claims 10 to 13, wherein the or each filter layer of the intermediate layer comprises one or more disposable filter elements.

10 16. A cladding system for cladding a building or other construction at a particular location, comprising the steps of:-

- a) identifying the nature of pollutants at that location;
- b) establishing an appropriate filter configuration for that building or other construction at that location;
- 15 c) forming cladding panel units for the building or other construction, the panel units having a graduated filtering profile across their thickness according to the filter configuration; and
- d) applying the panel units to the building or other construction.

20 17. A building or other construction comprising a plurality of panels formed of cladding material according to any one of claims 1 to 15.

18. A building or other construction cladding layer for use in the cladding material according to any one of claims 1 to 15 comprising a graduated filter
25 profile.

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19. A building cladding panel comprising:-

an air-permeable material, the material further being configured to filter out harmful chemical and/or biological agents.

5 20. A system for improving air quality in a particular location, the system comprising the steps of:-

- 10 a) placing at that location a building or other construction adopting air permeable cladding material; the cladding material comprising a filtration layer for removing one or more of:- particulate emissions, gas pollutants, chemical agents and biological agents as air passes from the exterior of the building or other construction to its interior; and
- b) arranging for filtered air from within the building or other construction to pass to the exterior of the building or other construction.

15 21. A system for improving air quality according to claim 20, comprising the cladding material according to any one of claims 1 to 15.

22. A durable cladding material comprising:-

an outer air permeable weatherproof cover;

20 an inner air permeable wearing surface cover; and

an intermediate layer, wherein the intermediate layer is provided with a graduated filtering profile for the removal of one or more particulate, gaseous, chemical and biological pollutants and contaminants.

25 23. A cladding material substantially as hereinbefore described with reference to the accompanying Figure.

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24. An air improvement system substantially as hereinbefore described with reference to the accompanying Figure.

5 25. A cladding system substantially as hereinbefore described with reference to the accompanying Figure.